

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P210224

Luminaire Tested: **PR830D010 - PR8M34WDMMS - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210224  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29051)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PR830D010 - PR8M34WDMMS - 3000K  
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE METALLIC SILVER FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3074.7 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.39  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

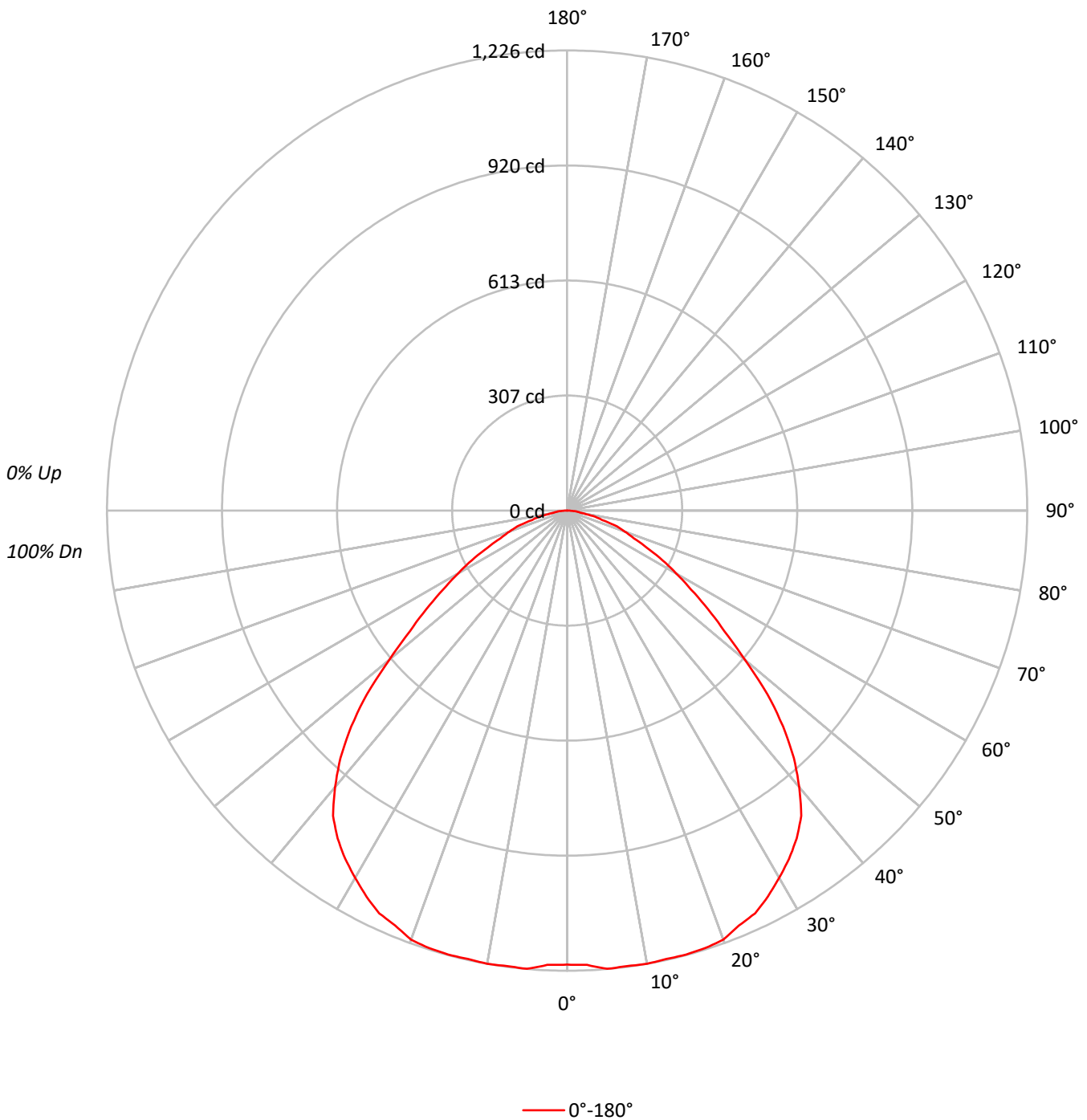
Input Watts (W): 28.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	68	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	37303
5°	37931
10°	38389
15°	39097
20°	39923
25°	40288
30°	40225
35°	40125
40°	38732
45°	35472
50°	29633
55°	24639
60°	20704
65°	17103
70°	14714
75°	11545
80°	7991
85°	8421



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.7	3.8
10°-20°	346.6	11.3
20°-30°	544.3	17.7
30°-40°	663.4	21.6
40°-50°	620.1	20.2
50°-60°	413.6	13.5
60°-70°	238.0	7.7
70°-80°	109.7	3.6
80°-90°	22.3	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1007.5	32.8
0°-40°	1671.0	54.3
0°-60°	2704.7	88.0
0°-90°	3074.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3074.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1210	
5°	1225	117
15°	1225	347
25°	1184	544
35°	1066	663
45°	813	620
55°	458	414
65°	234	238
75°	97	110
85°	24	22
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1209.7
2.5°	1211.6
5°	1225.4
7.5°	1224.1
10°	1226.0
12.5°	1223.5
15°	1224.7
17.5°	1222.2
20°	1216.6
22.5°	1196.6
25°	1184.1
27.5°	1159.1
30°	1129.7
32.5°	1100.3
35°	1065.9
37.5°	1024.7
40°	962.2
42.5°	894.0
45°	813.4
47.5°	724.0
50°	617.7
52.5°	527.7
55°	458.3
57.5°	392.0
60°	335.7
62.5°	287.0
65°	234.4
67.5°	192.6
70°	163.2
72.5°	138.8
75°	96.9
77.5°	76.9
80°	45.0
82.5°	28.8
85°	23.8
87.5°	6.9
90°	0.0

(END OF REPORT)